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NPIC/R-22/63
March 1963

PHOTOGRAPHIC INTERPRETATION REPORT

DEPLOYMENT OF MRBM AND IRBM LAUNCH SITES IN THE USSR



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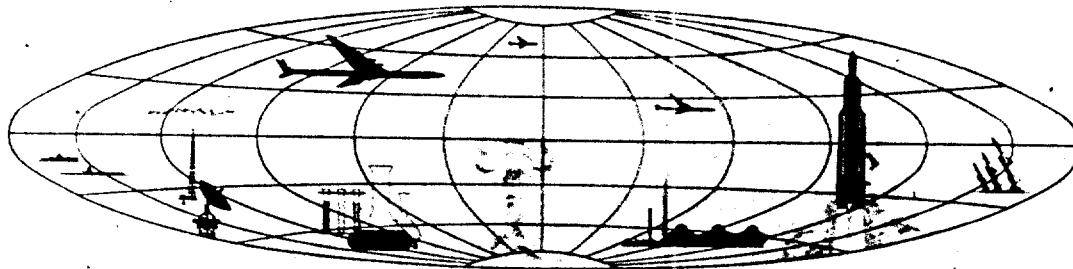
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**DEPLOYMENT OF MRBM AND IRBM
LAUNCH SITES IN THE USSR**

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INTRODUCTION

Further analysis of all available photography, coupled with information gained from the Soviet attempt to deploy strategic missiles in Cuba, has resulted in a reevaluation of Soviet MRBM and IRBM deployment concepts. A total of 169 such deployed launch sites have been identified in the USSR as of [redacted]

Deployed MRBM and IRBM launch sites in the USSR can be divided into four definite groups which fit into a logical evolution of design, as follows: Type I -- round-pad soft MRBM launch

sites, Type II -- elongated-pad soft MRBM sites, Type III -- elongated-pad soft IRBM sites, and Type IV -- hardened MRBM/IRBM sites. It now appears that it is more meaningful to classify soft MRBM launch sites by two types of pad configuration rather than by the overall site signature. Site signature is used, however, to identify the soft IRBM launch sites and the hardened launch sites. Descriptions of these four types of launch sites are presented below.

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DETAILED ANALYSIS**Round-Pad Soft MRBM Launch Sites (Type I)**

Seventy-seven soft MRBM launch sites consisting of four round launch pads each, with either two or four ready buildings, and a number of their support buildings have been identified in the USSR. Fifty-nine of these sites each have two ready buildings, and the remaining 18 have four ready buildings. The fact that only one of these sites has been observed while still under construction, when first identified in August 1961, leads to the conclusion that the deployment of this type of site was completed in the fall of 1961. Included in the round-pad classification are three major types of site configuration that have been described in previous reports as inline, rectangular, and irregular. On the basis of this system of classification, the 77 launch sites with round pads may be divided as follows: 20 inline sites, 34 rectangular sites, and 23 irregular sites. Many of the irregular round-pad sites are near the western frontiers of the USSR, which may be an indication that the Soviet 700-nautical-mile (nm) MRBM is deployed at some or all of these locations. Another possibility is that

these sites are for the 1,100 nm missile because some of the irregularities of these site signatures bear a resemblance to the field type of MRBM installations observed in Cuba.

Elongated-Pad Soft MRBM Launch Sites (Type II)

Elongated launch pads appear to be the latest construction concept for soft MRBM launch sites in use by the Soviets. Forty-eight sites of this type, in varying stages of construction, have been identified to date in the USSR. All are basically of an inline configuration with a pad separation of from 500 to 600 feet, all have four ready buildings, and all have approximately the same number of support buildings. The elongated pad is also the general design concept in use for the launch pads at Soviet IRBM and ICBM launch sites. Elongated pads were first identified in December 1959 when under construction at Launch Area 2C of the Kapustin Yar Missile Test Center (KYMTC). Similar pads were later observed in April 1960, under construction at Launch Complex C of the Tyura Tam Missile

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Test Center. Launch Area 5C-2 of the KYMTC is similar in configuration to one-half of a deployed MRBM launch site containing elongated pads. The pad separation at this site is slightly greater than that found at the average deployed MRBM site and slightly less than that found at deployed soft IRBM sites. The fact that Area 5C-2 was still under construction in April 1962, well after sites of this type had been deployed, indicates that it probably is used for troop training.

Three additional soft sites deployed in the Far East have characteristics of both the elongated-pad MRBM and soft IRBM sites. These three sites are designated in this report as elongated-pad soft MRBM/IRBM launch sites.

Soft IRBM Launch Sites (Type III)

Eleven soft IRBM launch sites have been identified in the USSR to date. Each of these sites consists of four elongated pads separated by a distance of 700 to 800 feet and forming an inline configuration. The pad separation found at these sites is similar to that at the three IRBM sites that were under construction in Cuba. Four ready buildings and other support buildings also are present at each site. The support buildings have a different arrangement than those found at the MRBM launch sites having elongated pads. It is estimated that deployment of this system started early in 1961 and that Launch Area 5C-1

at the KYMTC, which has a wider pad separation than Launch Area 5C-2, is used for the operational troop training on this system.

Hardened IRBM and MRBM/IRBM Launch Sites (Type IV)

Thirty hardened IRBM and MRBM/IRBM launch sites have been identified in the USSR to date. Each site consists basically of two missile silos, an underground control bunker, and a nearby soft support area. The prototypes for these launch sites are the sites at Launch Area 4C of the KYMTC. It is impossible from available photography to determine whether or not both the MRBM and IRBM systems have been hardened by the Soviets. Therefore, the hardened sites associated with soft IRBM sites have been designated as hardened IRBM launch sites in this report, and all others have been designated as hard MRBM/IRBM launch sites. The association of hardened sites with round-pad and elongated-pad, soft MRBM sites and the presence of two launch sites at Launch Area 4C of the KYMTC raises the possibility that both the 1,100 and 2,000 nm missile systems have been hardened. The fact that Launch Area 5C of the KYMTC probably is being used for troop training on both these systems strengthens this possibility and indicates that the Soviets have employed two missile systems at a single launch area of the test range. A detailed analysis of this type of site is nearing completion

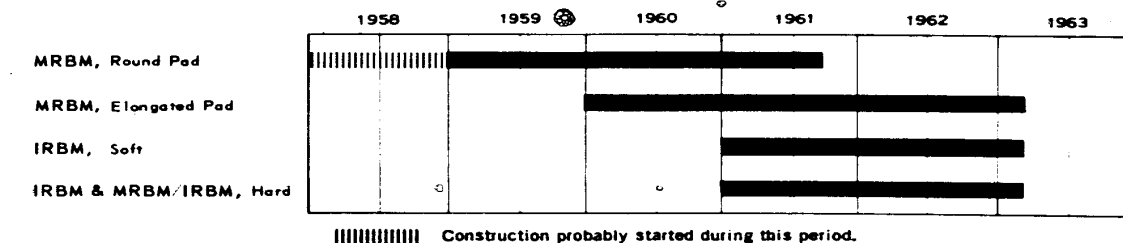


FIGURE 1. POSSIBLE CONSTRUCTION SEQUENCE OF DEPLOYED SOVIET MRBM AND IRBM LAUNCH SITES.

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under NPIC Project JN-250/62. Figure 1 shows a possible timing sequence for the deployment of MRBM and IRBM launch sites in the USSR as determined from photography.

Complex Deployment Concepts

A detailed study was made of the grouping of all identified MRBM/IRBM launch sites into complexes to determine Soviet deployment concepts with respect to the number of launch sites in each complex.

Twenty-six complexes of three sites each have been identified on photography. These complexes were so identified when three sites were observed in close proximity and in most cases were found to be served by a common access road. In some cases, all three sites also are served by the same support area. In all cases it appears that the third site has been added well after the completion of the first two sites. These 26 complexes of three launch sites may be categorized as follows:

Twelve complexes of two round-pad MRBM sites and one hardened MRBM/IRBM site

Four complexes of two elongated-pad MRBM sites and one hardened MRBM/IRBM site

Five complexes of two round-pad MRBM sites and one elongated-pad MRBM site

One complex of three elongated-pad MRBM sites

One complex of two soft IRBM sites and one hardened IRBM site

One complex of three soft IRBM sites

Two complexes of three hardened MRBM/IRBM sites

A total of 43 MRBM and IRBM launch complexes consist of two sites each. These complexes may be categorized as follows:

Twenty-one complexes of two round-

pad MRBM sites

Fifteen complexes of two elongated-pad MRBM sites

One complex of one elongated-pad MRBM site and one hardened MRBM/IRBM site

One complex of two soft IRBM sites

One complex of two hardened MRBM

IRBM sites

Four complexes of one soft IRBM site and one hardened IRBM site

Five sites are still deployed singly as of the most recent usable photographic coverage and may be categorized as follows:

One round-pad MRBM site

One elongated-pad MRBM site

Three elongated-pad soft MRBM/IRBM sites

It should be noted that in complexes consisting of two sites there is no mixing of round-pad and elongated-pad MRBM launch sites, nor is there any mixing of soft MRBM sites with soft IRBM sites. Also noteworthy is the fact that no hardened MRBM/IRBM sites have been identified singly.

In all the above totals, both possible and probable sites have been included. A complete tabulation of all identified MRBM and IRBM launch sites in the USSR listed alphabetically by complex name is given in Table 1. Where applicable, the third site has been added under the original complex name. All site locations were replotted from photography on the best maps available, in most cases the AMS 250 series charts. Coordinates are given to the nearest 15 seconds, which is considered to be the most realistic plotting accuracy on the basis of available materials.

A listing of all MRBM and IRBM sites arranged by categories described in this report is given in Table 2. The site names used are

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those assigned by TDI, and the construction status is that of the site when first observed on photography.

This analysis of MRBM/IRBM deployment indicates that the Soviets are deploying three

launch sites at a significant number of complexes, indicating that this may become the normal deployment pattern instead of the two sites in each complex previously considered normal.

TABLE 1. LISTING OF MRBM AND IRBM LAUNCH SITES IN THE USSR, BY COMPLEX

COMPLEX AND SITE NAME	BE NUMBER	COORDINATES	TYPE OF SITE
AKHTYRKA COMPLEX			
1. Akhtyrka 1		50-15-45N 34-50-15E	elongated-pad soft MRBM
2. Akhtyrka 2		50-22-00N 34-57-15E	elongated-pad soft MRBM
ALUKSNE COMPLEX			
1. Lejasciems		57-21-15N 26-44-45E	elongated-pad soft MRBM
2. Ruski		57-25-15N 26-50-00E	elongated-pad soft MRBM
ANASTASYEVKA COMPLEX			
1. Anastasyevka 1		48-35-00N 135-38-45E	elongated-pad soft MRBM
2. Anastasyevka 2		48-36-45N 135-41-30E	elongated-pad soft MRBM
BALTA COMPLEX			
1. Balta 1		48-01-45N 29-33-30E	elongated-pad soft MRBM
2. Balta 2		48-07-45N 29-34-30E	elongated-pad soft MRBM
BARANO-ORENBURGSKOYE COMPLEX			
1. Sofiye-Aleksyevskoye		44-15-30N 131-23-00E	rectangular round-pad soft MRBM
2. Sofiye-Aleksyevskoye		44-19-45N 131-30-15E	inline round-pad soft MRBM
BELOKOROVICHI COMPLEX			
1. Olevsk 1		51-08-45N 28-03-30E	rectangular round-pad soft MRBM
2. Olevsk 2		51-10-30N 28-00-15E	rectangular round-pad soft MRBM
3. Rudnya Zlotinskaya		51-04-30N 28-07-00E	rectangular hard MRBM IRBM
BORSHEV COMPLEX			
1. Skala-Podolskaya 1		48-51-00N 26-08-30E	rectangular round-pad soft MRBM
2. Skala-Podolskaya 2		48-53-15N 26-03-30E	rectangular round-pad soft MRBM
BREST COMPLEX			
1. Brest 1		51-49-00N 24-01-00E	elongated-pad soft MRBM
2. Brest 2		51-51-45N 24-01-45E	elongated-pad soft MRBM
BRODY COMPLEX			
1. Brody 2		50-13-15N 25-05-00E	irregular round-pad soft MRBM
2. Berestechko		50-20-15N 25-05-30E	irregular round-pad soft MRBM
3. Brody 1		50-06-00N 25-12-00E	irregular hard MRBM IRBM
DERAZHNYA COMPLEX			
1. Derazhnya 1		49-21-00N 27-26-30E	elongated-pad soft MRBM
2. Derazhnya 2		49-26-30N 27-29-00E	elongated-pad soft MRBM
3. Khmelniitskiy		49-24-45N 27-08-45E	hard MRBM IRBM
DISNA COMPLEX			
1. Disna		55-35-15N 28-15-45E	rectangular round-pad soft MRBM
2. Zelki		55-36-00N 28-24-30E	rectangular round-pad soft MRBM
3. Borkovichi		55-42-00N 28-27-15E	elongated-pad soft MRBM

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TABLE 1. (Continued)

COMPLEX AND SITE NAME	BE NUMBER	COORDINATES	TYPE OF SITE
DOLINA COMPLEX			
1. Dolina 1		49-04-00N 24-03-30E	irregular round-pad soft MRBM
2. Dolina 2		49-06-15N 24-08-30E	irregular round-pad soft MRBM
3. Bolekhov		49-06-45N 23-51-15E	hard MRBM IRBM
DROGOBYCH COMPLEX			
1. Medenitsa		49-22-00N 23-45-30E	rectangular round-pad soft MRBM
2. Drogobych		49-24-45N 23-34-45E	rectangular round-pad soft MRBM
3. Stryy		49-16-30N 23-43-00E	hard MRBM IRBM
DYATLOVO COMPLEX			
1. Dyatlovo		53-33-00N 25-16-30E	irregular round-pad soft MRBM
2. Berezovka		53-36-15N 25-26-30E	elongated-pad soft MRBM
3. Zblyany		53-35-30N 25-17-45E	irregular round-pad soft MRBM
GOMEL COMPLEX			
1. Borkhov 1		52-18-45N 30-43-00E	elongated-pad soft MRBM
2. Borkhov 2		52-24-45N 30-38-30E	elongated-pad soft MRBM
GRANOV COMPLEX			
1. Granov 1		48-56-15N 29-30-30E	soft IRBM
2. Granov 2		48-49-30N 29-29-15E	hard IRBM
GRESK COMPLEX			
1. Gresk 1		53-14-50N 27-42-15E	rectangular round-pad soft MRBM
2. Gresk 2		53-17-00N 27-41-15E	rectangular round-pad soft MRBM
3. Urech'ye		53-11-30N 27-58-30E	elongated-pad soft MRBM
GUSEV COMPLEX			
1. Gusev 1		54-41-30N 22-05-15E	inline round-pad soft MRBM
2. Gusev 2		54-44-15N 22-04-15E	inline round-pad soft MRBM
GVARDEYSK COMPLEX			
1. Gvardeysk 2		54-45-15N 21-09-15E	irregular round-pad soft MRBM
JELGAVA COMPLEX			
1. Iecava 1		56-35-30N 24-03-45E	elongated-pad soft MRBM
2. Iecava 2		56-39-45N 24-08-00E	elongated-pad soft MRBM
3. Iecava 3		56-33-15N 24-20-30E	hard MRBM IRBM
JONAVA COMPLEX			
1. Karmelava		54-57-15N 24-06-00E	elongated-pad soft MRBM
2. Jonava		55-01-00N 24-14-15E	elongated-pad soft MRBM
KAMENETS PODOLSKIY COMPLEX			
1. Kamenets Podolskiy		48-51-15N 26-42-30E	elongated-pad soft MRBM
2. Dunayevtsy		48-55-15N 26-59-15E	elongated-pad soft MRBM
KIVERTSY COMPLEX			
1. Kivertsy 1		50-52-45N 25-30-45E	inline round-pad soft MRBM
2. Kivertsy 2		50-57-00N 25-36-15E	inline round-pad soft MRBM
3. Kivertsy 3		50-58-30N 25-39-15E	elongated-pad soft MRBM
KONKOVICHI COMPLEX			
1. Petrikov		52-10-30N 28-34-30E	rectangular round-pad soft MRBM
2. Konkovich		52-15-30N 28-37-45E	rectangular round-pad soft MRBM

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TABLE 1. (Continued)

COMPLEX AND SITE NAME	BE NUMBER	COORDINATES	TYPE OF SITE
KOROSTEN COMPLEX			
1. Korosten 1		50-51-45N 28-18-45E	elongated-pad soft MRBM
2. Korosten 2		50-52-30N 28-30-30E	elongated-pad soft MRBM
KOZHANOVICHI COMPLEX			
1. Kozhanovichi 1		52-10-30N 27-51-30E	poss irregular round-pad soft MRBM
2. Kozhanovichi 2		52-11-45N 27-48-30E	irregular round-pad soft MRBM
KRASKINO COMPLEX			
1. Kraskino		42-44-00N 130-40-45E	elongated-pad soft MRBM IRBM
KRASNOZAMENSK COMPLEX			
1. Viessville		55-01-30N 22-23-00E	irregular round-pad soft MRBM
2. Ragnit		55-01-30N 22-11-30E	irregular round-pad soft MRBM
KROLEVETS COMPLEX			
1. Krolevets 1		51-36-45N 33-28-45E	soft IRBM
2. Krolevets 2		51-40-45N 33-29-30E	soft IRBM
KURGANCHA COMPLEX			
1. Kurgancha 1		39-37-15N 65-54-00E	inline round-pad soft MRBM
2. Kurgancha 2		39-37-30N 65-57-15E	inline round-pad soft MRBM
3. Tym		39-35-15N 65-42-15E	prob hard MRBM IRBM
LEBEDIN COMPLEX			
1. Lebedin 1		50-33-00N 34-26-00E	soft IRBM
2. Lebedin 2		50-35-45N 34-24-45E	soft IRBM
3. Lebedin 3		50-38-00N 34-27-30E	poss soft IRBM
LIDA COMPLEX			
1. Lida 1		53-47-00N 25-21-30E	irregular round-pad soft MRBM
2. Lida 2		53-57-00N 25-28-00E	rectangular round-pad soft MRBM
LUTSK COMPLEX			
1. Lutsk 1		50-46-45N 25-04-15E	irregular round-pad soft MRBM
2. Lutsk 2		50-50-15N 25-03-00E	inline round-pad soft MRBM
3. Vladimir Volynskiy		50-48-30N 24-42-30E	hard MRBM IRBM
MARINA GORKA COMPLEX			
1. Marina Gorka		53-26-30N 27-45-45E	elongated-pad soft MRBM
MAYKOP COMPLEX			
1. Kurdzhipskaya		44-31-45N 40-00-45E	elongated-pad soft MRBM
2. Shirvanskaya		44-25-30N 39-54-00E	hard MRBM IRBM
MOLOSKOVITSY COMPLEX			
1. Moloskovitsy 1		59-28-45N 29-06-00E	elongated-pad soft MRBM
2. Moloskovitsy 2		59-29-30N 29-12-30E	elongated-pad soft MRBM
3. Gurelevo		59-25-30N 28-52-30E	hard MRBM IRBM
MUKACHEVO COMPLEX			
1. Mukachevo 1		48-19-00N 22-31-00E	rectangular round-pad soft MRBM
2. Mukachevo 2		48-19-30N 22-37-45E	rectangular round-pad soft MRBM

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TABLE 1. (Continued)

COMPLEX AND SITE NAME	BE NUMBER	COORDINATES	TYPE OF SITE
NADVORNAYA COMPLEX			
1. Paryshe		48-38-00N 24-42-00E	irregular round-pad soft MRBM
2. Novaves		48-39-30N 24-48-15E	irregular round-pad soft MRBM
3. Otynya		48-47-45N 24-50-15E	hard MRBM IRBM
NIGRANDE COMPLEX			
1. Nigrande	⊙	56-31-00N 22-02-15E	soft IRBM
2. Skrunda		56-35-45N 21-49-15E	hard IRBM
NOVOSYSOYEVKA COMPLEX			
1. Novosysoyevka 1		44-11-30N 133-26-00E	soft IRBM
2. Novosysoyevka 2		44-07-45N 133-27-30E	probable hard IRBM
OSTROG COMPLEX			
1. Ostrog 1		50-14-30N 26-44-00E	rectangular round-pad soft MRBM
2. Ostrog 2		50-17-15N 26-41-30E	inline round-pad soft MRBM
OSTROV COMPLEX			
1. Asanovshchina		57-32-45N 28-12-00E	irregular round-pad soft MRBM
2. Shevelevo		57-37-30N 28-12-45E	rectangular round-pad soft MRBM
3. Redkino		57-24-30N 28-26-45E	hard MRBM IRBM
PAPLAKA COMPLEX			
1. Paplaka 1		56-24-00N 21-15-30E	inline round-pad soft MRBM
2. Paplaka 2		56-25-30N 21-15-30E	inline round-pad soft MRBM
PERVOMAYSK COMPLEX			
1. Kamenny Most		47-58-30N 30-53-00E	hard MRBM IRBM
2. Semenovka 1		47-58-45N 30-59-30E	hard MRBM IRBM
3. Semenovka 2		47-53-45N 30-57-30E	hard MRBM IRBM
PINSK COMPLEX			
1. Ivanovo		52-10-45N 25-41-00E	rectangular round-pad soft MRBM
2. Motol		52-12-45N 25-44-45E	rectangular round-pad soft MRBM
POLOTSK COMPLEX			
1. Polotsk 1		55-22-45N 28-44-00E	elongated-pad soft MRBM
2. Polotsk 2		55-24-15N 28-33-30E	elongated-pad soft MRBM
POSTAVY COMPLEX			
1. Postavy		55-09-45N 26-54-15E	elongated-pad soft MRBM
2. Koznyany		55-20-30N 26-51-30E	elongated-pad soft MRBM
PRUZHANY COMPLEX			
1. Pruzhany 1		52-30-30N 24-08-15E	elongated-pad soft MRBM
2. Pruzhany 2		52-33-00N 24-07-00E	elongated-pad soft MRBM
RAKVERE COMPLEX			
1. Simuna		59-08-30N 26-26-30E	elongated-pad soft MRBM
2. Vaike Maarja		59-11-30N 26-20-45E	elongated-pad soft MRBM
RISTI COMPLEX			
1. Risti 1		59-04-00N 24-03-15E	rectangular round-pad soft MRBM
2. Risti 2		59-06-30N 24-06-30E	irregular round-pad soft MRBM

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TABLE 1 (Continued)

COMPLEX AND SITE NAME	BE NUMBER	COORDINATES	TYPE OF SITE
ROZHDESTVENKA COMPLEX			
1. Rozhdestvenka		45-47-15N 133-43-15E	elongated-pad soft MRBM IRBM
RUZHANY COMPLEX			
1. Krupa 1		52-48-15N 24-42-00E	elongated-pad soft MRBM
2. Krupa 2		52-49-30N 24-45-30E	elongated-pad soft MRBM
SARY OZEK COMPLEX			
1. Kara-Babau 1		44-32-00N 77-46-45E	soft IRBM
2. Kara-Babau 2		44-31-00N 77-58-45E	possible hard IRBM*
SATEIKIAI COMPLEX			
1. Salantai 1		55-59-45N 21-38-00E	inline round-pad soft MRBM
2. Salantai 2		56-02-15N 21-41-30E	rectangular round-pad soft MRBM
3. Zemaiciu Kalvarija		56-01-30N 21-53-30E	hard MRBM IRBM
SHESTOVO COMPLEX			
1. Shestovo 1		62-57-15N 40-13-00E	possible hard MRBM IRBM*
2. Shestovo 2		62-55-00N 40-11-15E	possible hard MRBM IRBM*
SLONIM COMPLEX			
1. Byten 1		52-52-30N 25-21-00E	rectangular round-pad soft MRBM
2. Byten 2		52-55-30N 25-21-30E	rectangular round-pad soft MRBM
SMORGON COMPLEX			
1. Smorgon 1		54-31-45N 26-17-30E	soft IRBM
2. Smorgon 3		54-36-15N 26-23-15E	probable soft IRBM
3. Smorgon 2		54-26-15N 26-18-15E	hard IRBM
SOKAL COMPLEX			
1. Sokal 1		50-23-00N 24-18-30E	irregular round-pad soft MRBM
2. Sokal 2		50-27-30N 24-20-45E	irregular round-pad soft MRBM
3. Sokal 3		50-20-15N 24-26-00E	hard MRBM IRBM
SOVETSK COMPLEX			
1. Slavsk 1		54-59-15N 21-37-15E	inline round-pad soft MRBM
2. Slavsk 2		55-00-00N 21-29-00E	inline round-pad soft MRBM
SUCHAN COMPLEX			
1. Novitskoye		43-01-45N 133-17-15E	rectangular round-pad soft MRBM
2. Severnyy Suchan		43-10-00N 133-20-00E	rectangular round-pad soft MRBM
TAURAGE COMPLEX			
1. Taurage 3		55-10-15N 22-20-45E	irregular round-pad soft MRBM
2. Taurage 1		55-05-15N 22-19-30E	irregular round-pad soft MRBM
TAYBOLA COMPLEX			
1. Taybola 1		68-28-15N 33-15-15E	hard MRBM IRBM
2. Taybola 2		68-30-00N 33-23-00E	hard MRBM IRBM
3. Taybola 3		68-25-45N 33-29-30E	probable hard MRBM IRBM

*CIA NPIC considers that these installations are PROBABLE Hardened Launch Sites.

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TABLE 1. (Continued)

COMPLEX AND SITE NAME	BE NUMBER	COORDINATES	TYPE OF SITE
TORVA COMPLEX			
1. Torva 1		57-56-20N 26-04-20E	inline round-pad soft MRBM
2. Torva 2		57-59-15N 26-05-15E	rectangular round-pad soft MRBM
3. T-sigullina		57-49-45N 26-12-15E	hard MRBM IRBM
UGOLNYI COMPLEX			
1. Ugolnyy		64-46-15N 177-58-00E	elongated-pad soft MRBM IRBM
UKMERGE COMPLEX			
1. Vopriai		55-08-00N 24-38-45E	inline round-pad soft MRBM
2. Ukmurge		55-11-15N 24-42-30E	inline round-pad soft MRBM
UMAN COMPLEX			
1. Molodets-koye		48-53-45N 30-27-45E	rectangular round-pad soft MRBM
2. Mankovka		48-57-45N 30-24-00E	rectangular round-pad soft MRBM
USOVO COMPLEX			
1. Ovruch 1		51-17-45N 28-16-00E	inline round-pad soft MRBM
2. Ovruch 2		51-18-45N 28-10-30E	rectangular round-pad soft MRBM
3. Lipniki		51-12-00N 28-26-30E	elongated-pad soft MRBM
VORU COMPLEX			
1. Voru 1		57-46-00N 26-47-15E	elongated-pad soft MRBM
2. Voru 2		57-49-15N 26-50-30E	elongated-pad soft MRBM
VSELYUB COMPLEX			
1. Vselyub 1		53-46-15N 25-43-00E	irregular round-pad soft MRBM
2. Vselyub 2		53-48-00N 25-46-45E	irregular round-pad soft MRBM
YELSK COMPLEX			
1. Yelsk 1		51-42-00N 29-12-30E	rectangular round-pad soft MRBM
2. Yelsk 2		51-47-00N 29-18-00E	rectangular round-pad soft MRBM
ZAGARE COMPLEX			
1. Zagare 1		56-23-15N 23-19-30E	rectangular round-pad soft MRBM
2. Zagare 2		56-29-00N 23-21-30E	rectangular round-pad soft MRBM
3. Lileleleja		56-24-00N 23-36-45E	hard MRBM IRBM
ZHITOMIR COMPLEX			
1. Zhitomir 1		50-04-45N 28-16-15E	elongated-pad soft MRBM
2. Zhitomir 2		50-10-15N 28-16-00E	elongated-pad soft MRBM
3. Berdichev		50-05-45N 28-22-45E	elongated-pad soft MRBM
ZHMERINKA COMPLEX			
1. Gnivan		49-09-15N 28-12-15E	elongated-pad soft MRBM
2. Zhmerinka		49-10-30N 28-04-45E	elongated-pad soft MRBM
3. Vinnitsa		49-17-30N 28-20-15E	hard MRBM IRBM
ZNAMENSK COMPLEX			
1. Znamensk 1		54-33-00N 21-11-15E	inline round-pad soft MRBM
2. Znamensk 2		54-35-30N 21-08-45E	inline round-pad soft MRBM

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TABLE 2. LISTING OF MRBM AND IRBM LAUNCH SITES IN THE USSR, BY CATEGORY

SITE NAME	BE NUMBER	COORDINATES	COMPLEX DESIGNATOR	OTHER SITES IN COMPLEX	DATE FIRST APPEARED ON PHOTOGRAPHY	CONSTRUCTION STATUS AT THAT TIME
ROUND-PAD SOFT MRBM LAUNCH SITES (TYPE I)						
1. Asanovshchina		57-32-45N 28-12-00E	Ostrov 1	1 round-pad MRBM 1 hard MRBM IRBM	Dec 61	complete
2. Barano-Orenburgskoye		44-19-45N 131-30-15E	Barano-Orenburgskoye 2	1 round-pad MRBM	Sep 61	complete
3. Beresteckko		50-20-15N 025-05-30E	Brody 2	1 round-pad MRBM 1 hard MRBM IRBM	May 62	complete
4. Brody 2		50-13-15N 025-05-00E	Brody 1	1 round-pad MRBM 1 hard MRBM IRBM	Sep 61	complete
5. Byten 1		52-52-30N 25-21-00E	Slonim 1	1 round-pad MRBM	Feb 62	complete
6. Byten 2		52-55-30N 25-21-30E	Slonim 2	1 round-pad MRBM	Feb 62	complete
7. Ditsna		55-35-15N 28-15-45E	Ditsna 1	1 round-pad MRBM 1 elongated-pad MRBM	Aug 61	complete
8. Dolina 1		49-04-00N 24-03-30E	Dolina 1	1 round-pad MRBM 1 hard MRBM IRBM	Jun 61	complete
9. Dolina 2		49-06-15N 24-08-30E	Dolina 2	1 round-pad MRBM 1 hard MRBM IRBM	Jun 61	complete
10. Drogobych		49-24-45N 23-34-45E	Drogobych 2	1 round-pad MRBM 1 hard MRBM IRBM	Jul 61	complete
11. Dyatlovo		53-33-00N 25-16-30E	Dyatlovo 1	1 round-pad MRBM 1 elongated-pad MRBM	Feb 62	complete
12. Gresk 1		53-14-50N 27-42-45E	Gresk 1	1 round-pad MRBM 1 elongated-pad MRBM	Dec 61	complete
13. Gresk 2		53-17-00N 27-41-45E	Gresk 2	1 round-pad MRBM 1 elongated-pad MRBM	Aug 61	complete
14. Gus-ov 1		54-41-30N 22-05-45E	Gus-ov 1	1 round-pad MRBM	Jan 61	complete
15. Gus-ov 2		54-44-15N 22-04-45E	Gus-ov 2	1 round-pad MRBM	Jun 61	complete
16. Gvardeysk 2		54-45-15N 21-09-45E	Gvardeysk	1 round-pad MRBM	Jun 61	complete
17. Ivanovo		52-10-45N 25-41-00E	Pivsk 1	1 round-pad MRBM	Mar 62	complete
18. Kivertsy 1		50-52-45N 25-30-45E	Kivertsy 1	1 round-pad MRBM 1 elongated-pad MRBM	May 62	complete
19. Kivertsy 2		50-57-00N 25-26-45E	Kivertsy 2	1 round-pad MRBM 1 elongated-pad MRBM	May 62	complete
20. Konkovich		52-15-30N 28-37-45E	Konkovich 2	1 round-pad MRBM	Dec 61	complete
21. Kozhanovich 1		52-10-30N 27-54-30E	Kozhanovich 1	1 round-pad MRBM	Jun 62	complete
22. Kozhanovich 2		52-11-45N 27-48-30E	Kozhanovich 2	1 round-pad MRBM	Feb 62	complete

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TABLE 2. (Continued)

SITE NAME	BE NUMBER	COORDINATES	COMPLEX DESIGNATOR	OTHER SITES IN COMPLEX	DATE FIRST APPEARED ON PHOTOGRAPHY	CONSTRUCTION STATUS AT THAT TIME
23. Kurgancha 1		39-27-15N 65-54-00E	Kurgancha 1	1 round-pad MRBM 1 hard MRBM IRBM	Sep 61	late
24. Kurgancha 2		39-27-30N 65-57-15E	Kurgancha 2	1 round-pad MRBM 1 hard MRBM IRBM	Sep 61	complete
25. Lida 1		33-47-00N 25-21-30E	Lida 1	1 round-pad MRBM	Feb 62	complete
26. Lida 2		33-57-00N 25-28-00E	Lida 2	1 round-pad MRBM	Feb 62	complete
27. Lutsk 1		50-46-45N 25-04-15E	Lutsk 1	1 round-pad MRBM 1 hard MRBM IRBM	May 62	complete
28. Lutsk 2		50-50-45N 25-03-00E	Lutsk 2	1 round-pad MRBM 1 hard MRBM IRBM	May 62	complete
29. Mankovka		48-57-45N 30-24-00E	Uman 2	1 round-pad MRBM	Apr 61	complete
30. Medvedka		49-22-00N 23-45-30E	Drogobych 1	1 round-pad MRBM 1 hard MRBM IRBM	Jul 61	complete
31. Moholetskoye		48-53-45N 30-27-45E	Uman 1	1 round-pad MRBM	Jun 61	complete
32. Motul		52-42-45N 25-44-45E	Pinok 2	1 round-pad MRBM	May 62	complete
33. Mukachevo 1		48-49-00N 22-31-00E	Mukachevo 1	1 round-pad MRBM	Jul 61	complete
34. Mukachevo 2		48-49-30N 22-37-45E	Mukachevo 2	1 round-pad MRBM	Jul 61	complete
35. Novate		48-39-30N 24-48-15E	Nadvornaya 2	1 round-pad MRBM 1 hard MRBM IRBM	Jun 61	complete
36. Novotroye		43-01-45N 133-17-45E	Suchan 1	1 round-pad MRBM	Dec 60	complete
37. Obovsk 1		51-08-45N 28-03-30E	Belokorovichi 1	1 round-pad MRBM 1 hard MRBM IRBM	Jun 61	complete
38. Obovsk 2		51-10-30N 28-00-15E	Belokorovichi 2	1 round-pad MRBM 1 hard MRBM IRBM	Jun 61	complete
39. O-trog 1		50-44-30N 26-44-00E	O-trog 1	1 round-pad MRBM	Apr 62	complete
40. O-trog 2		50-47-45N 26-41-30E	O-trog 2	1 round-pad MRBM	Apr 62	complete
41. Otruch 1		51-17-45N 28-46-00E	Usovo 1	1 round-pad MRBM 1 elongated-pad MRBM	Jun 61	complete
42. Otruch 2		51-18-45N 28-40-30E	Usovo 2	1 round-pad MRBM 1 elongated-pad MRBM	Jun 61	complete
43. Paplaka 1		56-24-00N 24-45-30E	Paplaka 1	1 round-pad MRBM	Jul 61	complete
44. Paplaka 2		56-25-30N 24-45-30E	Paplaka 2	1 round-pad MRBM	Jul 61	complete
45. Paryshe		48-38-00N 24-42-00E	Nadvornaya 1	1 round-pad MRBM 1 hard MRBM IRBM	Jun 61	complete
46. Petrikov		52-10-30N 28-31-30E	Konkovichi 1	1 round-pad MRBM	Apr 62	complete
47. Ragnit		55-01-30N 22-41-30E	Krasnoznamen'sk 2	1 round-pad MRBM	Jun 61	complete

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TABLE 2. (Continued)

SITE NAME	BE NUMBER	COORDINATES	COMPLEX DESIGNATOR	OTHER SITES IN COMPLEX	DATE FIRST APPEARED ON PHOTOGRAPHY	CONSTRUCTION STATUS AT THAT TIME
48. Risti 1		59-04-00N 24-03-15E	Risti 1	1 round-pad MRBM	Feb 62	complete
49. Risti 2		59-06-30N 24-06-30E	Risti 2	1 round-pad MRBM	Oct 61	complete
50. Salantai 1		55-59-45N 24-38-00E	Sateikiiai 1	1 round-pad MRBM 1 hard MRBM IRBM	Jul 61	complete
51. Salantai 2		56-02-15N 24-41-30E	Sateikiiai 2	1 round-pad MRBM 1 hard MRBM IRBM	Jul 61	complete
52. Severnyy Suchan		43-10-00N 133-20-00E	Suchan 2	1 round-pad MRBM	Dec 60	complete
53. Sheveleva		57-37-30N 28-12-45E	Ostrov 2	1 round-pad MRBM 1 hard MRBM IRBM	Feb 62	complete
54. Skala-Podolskaya 1		48-51-00N 26-08-30E	Borshev 1	1 round-pad MRBM	Jun 61	complete
55. Skala-Podolskaya 2		48-53-15N 26-03-30E	Borshev 2	1 round-pad MRBM	Jun 61	complete
56. Slavsk 1		54-59-15N 21-37-15E	Sovetsk 1	1 round-pad MRBM	Jan 61	complete
57. Slavsk 2		55-00-00N 21-29-00E	Sovetsk 2	1 round-pad MRBM	Jan 61	complete
58. Sofiye-Alekseyevskoye		44-15-30N 131-23-00E	Barano-Orenburgskoye 1	1 round-pad MRBM	Aug 61	complete
59. Sokal 1		50-23-00N 24-18-30E	Sokal 1	1 round-pad MRBM 1 hard MRBM IRBM	Dec 61	complete
60. Sokal 2		50-27-30N 24-20-45E	Sokal 2	1 round-pad MRBM 1 hard MRBM IRBM	Dec 61	complete
61. Taurage 1		55-10-15N 22-20-15E	Taurage 2	1 round-pad MRBM	Jun 61	complete
62. Taurage 2		55-05-15N 22-19-50E	Taurage 1	1 round-pad MRBM	Jun 61	complete
63. Torva 1		57-56-30N 26-01-30E	Torva 1	1 round-pad MRBM 1 hard MRBM IRBM	Aug 61	complete
64. Torva 2		57-59-15N 26-05-15E	Torva 2	1 round-pad MRBM 1 hard MRBM IRBM	Aug 61	complete
65. Ukoerge		55-11-15N 24-12-30E	Ukoerge 2	1 round-pad MRBM	Dec 61	complete
66. Vepriai		55-08-00N 24-38-45E	Ukoerge 1	1 round-pad MRBM	Sep 61	complete
67. Viesville		55-01-30N 22-23-00E	Krasnoznanenck 1	1 round-pad MRBM	Jan 61	complete
68. Vselnyuh 1		53-46-15N 25-43-00E	Vselnyuh 1	1 round-pad MRBM	Feb 62	complete
69. Vselnyuh 2		53-48-00N 25-46-45E	Vselnyuh 2	1 round-pad MRBM	Feb 62	complete
70. Yelsk 1		54-42-00N 29-42-30E	Yelsk 1	1 round-pad MRBM	Jan 61	complete
71. Yelsk 2		54-47-00N 29-48-00E	Yelsk 2	1 round-pad MRBM	Feb 62	complete
72. Zapate 1		56-23-15N 23-19-30E	Zapate 1	1 round-pad MRBM 1 hard MRBM IRBM	Dec 61	complete
73. Zapate 2		56-29-00N 23-21-30E	Zapate 2	1 round-pad MRBM 1 hard MRBM IRBM	Dec 61	complete

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TABLE 2. (Continued)

SITE NAME	DE NUMBER	COORDINATES	COMPLEX DESIGNATOR	OTHER SITES IN COMPLEX	DATE FIRST APPEARED ON PHOTOGRAPHY	CONSTRUCTION STATUS AT THAT TIME
71. Zblyany		53-35-30N 25-17-15E	Dyatlovo 3	1 round-pad MRBM 1 elongated-pad MRBM	Feb 62	complete
75. Zolki		55-36-00N 28-24-30E	Di-na 2	1 round-pad MRBM 1 elongated-pad MRBM	Nov 61	complete
76. Znamensk 1		54-33-00N 21-11-15E	Znamensk 1	1 round-pad MRBM	Jun 61	complete
77. Znamensk 2		54-35-30N 21-08-15E	Znamensk 2	1 round-pad MRBM	Jan 61	complete
ELONGATED-PAD SOFT MRBM LAUNCH SITES (TYPE II)						
1. Akhtyrka 1		50-15-15N 31-50-15E	Akhtyrka 1	1 elongated-pad MRBM	Apr 62	mid
2. Akhtyrka 2		50-22-00N 31-57-15E	Akhtyrka 2	1 elongated-pad MRBM	Apr 62	complete
3. Anastasyevka		48-35-00N 135-38-15E	Anastasyevka 1	1 elongated-pad MRBM	Feb 62	mid
4. Anastasyevka		48-36-45N 135-41-30E	Anastasyevka 2	1 elongated-pad MRBM	Feb 62	early
5. Balta 1		48-01-45N 29-43-30E	Balta 1	1 elongated-pad MRBM	Jun 61	complete
6. Balta 2		48-07-15N 29-31-30E	Balta 2	1 elongated-pad MRBM	Sep 61	complete
7. Bordichev		50-05-15N 28-22-15E	Zhitomir 3	2 elongated-pad MRBM	Aug 62	early
8. Berezovka		53-36-15N 25-26-30E	Dyatlovo 2	2 round-pad MRBM	Feb 62	complete
9. Brest 1		51-49-00N 24-01-00E	Brest 1	1 elongated-pad MRBM	Dec 61	mid
10. Brest 2		51-51-45N 24-01-45E	Brest 2	1 elongated-pad MRBM	Dec 61	mid
11. Borkhov 1		52-18-45N 30-43-00E	Gomel 1	1 elongated-pad MRBM	Jun 61	complete
12. Borkhov 2		52-24-45N 30-38-30E	Gomel 2	1 elongated-pad MRBM	Jun 61	complete
13. Borkovichi		55-42-00N 28-27-15E	Di-na 3	2 round-pad MRBM	Feb 62	mid
14. Dorazhnya 1		49-21-00N 27-26-30E	Dorazhnya 1	1 elongated-pad MRBM 1 hard MRBM IRBM	Apr 62	complete
15. Dorazhnya 2		49-26-30N 27-29-00E	Dorazhnya 2	1 elongated-pad MRBM 1 hard MRBM IRBM	Apr 62	mid
16. Danayevtsy		48-55-15N 26-59-15E	Kamenets-Podolskiy 2	1 elongated-pad MRBM	Apr 62	early
17. Gaiyan		49-09-15N 28-12-15E	Zhemerinka 1	1 elongated-pad MRBM 1 hard MRBM IRBM	Apr 61	complete
18. Iecava 1		56-35-30N 24-03-15E	Jelgava 1	1 elongated-pad MRBM 1 hard MRBM IRBM	Dec 61	complete
19. Iecava 2		56-39-45N 24-08-00E	Jelgava 2	1 elongated-pad MRBM 1 hard MRBM IRBM	Dec 61	early
20. Jonava		55-01-00N 24-14-15E	Jonava 2	1 elongated-pad MRBM	Sep 61	complete
21. Kamenets-Podolskiy		48-51-15N 26-42-30E	Kamenets-Podolskiy 1	1 elongated-pad MRBM	Jun 61	complete
22. Karnelava		51-57-15N 24-06-00E	Jonava 1	1 elongated-pad MRBM	Feb 62	early
23. Kivertsy 3		50-58-30N 25-33-15E	Kivertsy 3	2 round-pad MRBM	May 62	complete

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TABLE 2. (Continued)

SITE NAME	BE NUMBER	COORDINATES	COMPLEX DESIGNATOR	OTHER SITES IN COMPLEX	DATE FIRST APPEARED ON PHOTOGRAPHY	CONSTRUCTION STATUS AT THAT TIME
24. Kotos-ten 1		50-51-45N 28-18-45E	Kotos-ten 1	1 elongated-pad MRBM	Jun 61	complete
25. Kotos-ten 2		50-52-30N 28-30-30E	Kotos-ten 2	1 elongated-pad MRBM	Jun 61	complete
26. Kozyany		55-20-30N 26-51-30E	Postavy 2	1 elongated-pad MRBM	Dec 61	complete
27. Krupa 1		52-48-15N 24-42-00E	Ruzhany 1	1 elongated-pad MRBM	Feb 62	complete
28. Krupa 2		52-49-30N 24-45-30E	Ruzhany 2	1 elongated-pad MRBM	Feb 62	complete
29. Kurdzhipskaya		44-31-45N 40-00-45E	Maykop	1 hard MRBM IRBM	Apr 62	mid
30. Lejasciems		57-21-15N 26-44-45E	Aluksne 1	1 elongated-pad MRBM	Jul 62	mid
31. Lipniki		51-12-00N 28-26-30E	Usou 3	2 round-pad MRBM	Apr 62	mid
32. Marina Gorka		53-26-30N 27-15-45E	Marina Gorka		May 62	early
33. Molokovitsy 1		59-28-45N 29-06-00E	Molokovitsy 1	1 elongated-pad MRBM 1 hard MRBM IRBM	Feb 62	mid
34. Molokovitsy 2		59-29-30N 29-12-30E	Molokovitsy 2	1 elongated-pad MRBM 1 hard MRBM IRBM	Feb 62	early
35. Polot-sk 1		55-22-45N 28-14-00E	Polot-sk 1	1 elongated-pad MRBM	Aug 61	complete
36. Polot-sk 2		55-24-15N 28-33-30E	Polot-sk 2	1 elongated-pad MRBM	Aug 61	complete
37. Postavy		55-09-45N 26-54-45E	Postavy 1	1 elongated-pad MRBM	Dec 61	complete
38. Prazhany 1		52-30-30N 24-08-45E	Prazhany 1	1 elongated-pad MRBM	Dec 61	complete
39. Prazhany 2		52-33-00N 24-07-00E	Prazhany 2	1 elongated-pad MRBM	Jul 61	complete
40. Ruski		57-25-15N 26-50-00E	Aluksne 2	1 elongated-pad MRBM	Jul 61	complete
41. Simona		59-08-30N 26-26-30E	Rakvere 1	1 elongated-pad MRBM	Sep 61	complete
42. Urechye		53-11-30N 27-58-30E	Gresk 3	2 round-pad MRBM	Feb 62	mid
43. Vanke Maarja		59-11-20N 26-20-45E	Rakvere 2	1 elongated-pad MRBM	Jun 61	complete
44. Voru 1		57-46-00N 26-47-45E	Voru 1	1 elongated-pad MRBM	Aug 61	complete
45. Voru 2		57-49-15N 26-50-30E	Voru 2	1 elongated-pad MRBM	Aug 61	complete
46. Zhmerinka		49-10-30N 28-04-45E	Zhmerinka 2	1 elongated-pad MRBM 1 hard MRBM IRBM	Aug 62	early
47. Zhitomar 1		50-04-45N 28-16-45E	Zhitomar 1	2 elongated-pad MRBM	Aug 62	early
48. Zhitomar 2		50-10-15N 28-16-00E	Zhitomar 2	2 elongated-pad MRBM	Aug 61	complete
ELONGATED-PAD SOFT MRBM IRBM LAUNCH SITES						
1. Kraskino		42-44-00N 130-40-45E	Kraskino		Sep 62	complete
2. Rozhde-stvenka		45-47-45N 133-43-45E	Rozhde-stvenka		Jun 62	complete
3. Ugodnyy		64-46-45N 177-58-00E	Ugodnyy		Jul 62	complete

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TABLE 2. (Continued)

SITE NAME	BE NUMBER	COORDINATES	COMPLEX DESIGNATOR	OTHER SITES IN COMPLEX	DATE FIRST APPEARED ON PHOTOGRAPHY	CONSTRUCTION STATUS AT THAT TIME
SOFT IRBM LAUNCH SITES (TYPE III)						
1. Granov 1		48-56-15N 29-30-30E	Granov 1	1 hard IRBM	Jun 61	mid
2. Kara-Babau 1		44-32-00N 77-46-15E	Sary Ozek 1	1 hard IRBM	Nov 61	mid
3. Krolevets 1		51-36-45N 33-28-45E	Krolevets 1	1 soft IRBM	Dec 61	complete
4. Krolevets 2		51-40-45N 33-29-30E	Krolevets 2	1 soft IRBM	Jul 62	complete
5. Lebedin 1		50-33-00N 34-26-00E	Lebedin 1	2 soft IRBM	Apr 62	complete
6. Lebedin 2		50-35-15N 34-24-45E	Lebedin 2	2 soft IRBM	Apr 62	mid
7. Lebedin 3		50-38-00N 34-27-30E	Lebedin 3	2 soft IRBM	Apr 62	early
8. Nigrande		56-31-00N 22-02-15E	N grande 1	1 hard IRBM	Apr 62	complete
9. Novosyoyevka		44-11-30N 133-26-00E	Novosyoyevka	1 prob hard IRBM	Sep 61	complete
10. Smorgon 1		54-31-15N 26-17-30E	Smorgon 1	1 soft IRBM 1 hard IRBM	Aug 61	complete
11. Smorgon 3		54-36-15N 26-23-15E	Smorgon 2	1 soft IRBM 1 hard IRBM	Aug 62	early
HARD IRBM AND MRBM IRBM LAUNCH SITES (TYPE IV)						
1. Bolekhov		49-06-45N 23-51-15E	Dolina 3	2 round-pad MRBM	Jun 61	early
2. Brody 1		50-06-00N 25-12-00E	Brody 3	2 round-pad MRBM	Jun 62	mid
3. Granov 2		48-49-30N 29-29-15E	Granov 2	1 soft IRBM	Apr 62	mid
4. Gurovco		59-25-30N 28-52-30E	Molo-kovit-y 3	2 elongated-pad MRBM	Jun 62	mid
5. Iocava 3		56-33-15N 24-20-30E	Jelgava 3	2 elongated-pad MRBM	Dec 61	early
6. Kanonnny Most		47-58-30N 30-53-00E	Pervomay-sk 1	2 hard MRBM IRBM	Jun 61	early
7. Kara-Babau 2		44-31-00N 77-58-15E	Sary Ozek 2	1 soft IRBM	Nov 61	early
8. Khmelnit-kiy		49-24-45N 27-08-45E	Dorazhnya 3	2 elongated-pad MRBM	Apr 62	mid
9. Lielieleja		56-24-00N 23-36-45E	Zagare 3	2 round-pad MRBM	Sep 61	early
10. Novosyoyevka 2		44-07-45N 133-27-30E	Novosyoyevka 2	1 soft IRBM	Aug 62	early
11. Otynya		48-47-45N 24-50-15E	Nadvomaya 3	2 round-pad MRBM	Jun 61	early
12. Rodkino		57-24-30N 28-26-45E	Ostrov 3	2 round-pad MRBM	Dec 61	early
13. Rudnya Zlotinskaya		51-04-30N 28-07-00E	Belokorovichi 3	2 round-pad MRBM	Jun 61	early
14. Semenovka 1		47-58-45N 30-59-30E	Pervomay-sk 2	2 hard MRBM IRBM	Dec 61	early
15. Semenovka 2		47-53-45N 30-57-30E	Pervomay-sk 3	2 hard MRBM IRBM	Feb 62	early
16. Shestovo 1		62-57-15N 40-13-00E	She-stovo 1	1 hard MRBM IRBM	Apr 62	mid
17. Shestovo 2		62-58-00N 40-11-15E	She-stovo 2	1 hard MRBM IRBM	Apr 62	mid

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TABLE 2. (Continued)

SITE NAME	BE NUMBER	COORDINATES	COMPLEX DESIGNATOR	OTHER SITES IN COMPLEX	DATE FIRST APPEARED ON PHOTOGRAPHY	CONSTRUCTION STATUS AT THAT TIME
18. Shirvanskaya		44-25-30N 39-54-00E	Maykop 2	1 elongated-pad MRBM	Apr 62	mid
19. Skrunda		56-35-45N 21-49-45E	Nigrande 2	1 soft IRBM	Jun 62	early
20. Smorgon 2		54-26-15N 26-18-15E	Smorgon 3	2 soft IRBM	Aug 61	early
21. Sokal 3		50-20-15N 24-26-00E	Sokal 3	2 round-pad MRBM	Jun 62	mid
22. Stryy		49-16-30N 23-43-00E	Drogobych 3	2 round-pad MRBM	Jul 61	early
23. Taybola 1		68-28-15N 33-15-15E	Taybola 1	2 hard MRBM IRBM	Feb 62	early
24. Taybola 2		68-30-00N 33-23-00E	Taybola 2	2 hard MRBM IRBM	Feb 62	mid
25. Taybola 3		68-25-45N 33-29-30E	Taybola 3	2 hard MRBM IRBM	Feb 62	early
26. Tsinguliina		57-49-45N 26-12-15E	Torva 3	2 round-pad MRBM	Dec 61	early
27. Tym		39-35-15N 65-42-15E	Kurgancha 3	2 round-pad MRBM	Sep 61	early
28. Vinnitsa		49-17-30N 28-20-15E	Zhmerinka 3	2 elongated-pad MRBM	Apr 62	mid
29. Vladimir Volynskiy		50-48-30N 24-42-30E	Lutsk 3	2 round-pad MRBM	Jun 62	mid
30. Zemaieiu Kalvarija		56-01-30N 21-53-30E	Sateikiiai 3	2 round-pad MRBM	Jul 61	early

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