

PHOTOGRAPHIC INTERPRETATION REPORT



VITAL RECORDS COPY
SUMMARY OF
MRBM AND IRBM
FIXED FIELD SITES
USSR

[Redacted]

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APRIL 1967

COPY 116

14 PAGES

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[Redacted]

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PHOTOGRAPHIC INTERPRETATION REPORT

SUMMARY OF MRBM AND IRBM FIXED FIELD SITES USSR

APRIL 1967

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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PREFACE

This report is prepared under NPIC Project 11489/66 in response to GMAIC Requirement 37-6 requesting a summary report containing the results of a complete review of all existing fixed field sites, including a tabular report categorizing these positions as active, inactive, or undetermined based on visible or suspect activity over the 24 months from [redacted]

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SUMMARY

Fixed field sites are under continuing review by NPIC for changes, activity, inactivity, and other information that may assist in the determination of the ultimate purpose of the sites. This report presents the results of a complete review of all known fixed field sites through [redacted]. In several instances resulting from this review, existing sites are listed along with a complex other than that with which they are normally associated; reasons for this are included in the text. It has also been noted that the overwhelming majority of MRBM complexes have either 1 or 2 fixed field sites associated with them; the text includes comments about those complexes which appear to have more than 2.

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Each fixed field site is categorized as being active, inactive, or undetermined. Active sites are those at which launch ring positions, leveling blocks, and/or equipment have been observed since [redacted]. Inactive sites include those at which none of these items has been observed since [redacted] while some of these sites are no longer in use, it has not been possible from available photography to explain this. Sites listed as undetermined include those for which photography has not been of sufficient quality to permit observation of activity and new sites for which insufficient comparative photography is available to determine activity.

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Factors considered in associating fixed field sites with certain parent MRBM complexes include road distance and condition and relative launch pad orientation of sites and parent launch pad azimuths. Instances have been observed during this review in which the pad orientation is similar, but in which erectors on the launch pads at the parent site are positioned at different launch azimuths. This

variation, relatively recent in occurrence, does not by itself alter the fixed field site association with the parent complex, since clearings are normally large enough to accept variations in launcher positioning.

Winter photography has revealed only negligible visible activity, although at several sites vehicle tracks have been seen merely entering, circling, and leaving. As a result of this review of the 97 fixed field MRBM sites and one fixed field site associated with an IRBM complex currently listed by NPIC, 26 are considered active, 63 inactive, and 9 undetermined as to activity. Five suspect areas not listed by NPIC were re-examined for missile activity and are still not considered fixed field MRBM sites. The Smorgon Fixed Field Site is discussed in conjunction with the Lebedin IRBM probable training site.

NUMBER OF FIXED FIELD SITES PER COMPLEX

As a result of this review there is considerable photographic evidence indicating that MRBM complexes normally have either 1 or 2 fixed field sites per complex. It has not been possible from photography to determine why a complex has 1 rather than 2 sites. With the realignment of sites indicated in Table 1, there appear to be 29 complexes with 2 sites, 18 with 1 site, and 7 with more than 2, although there is evidence that 5 of these latter may in fact have only 2 sites.

Association of 2 sites with other than accepted complexes has been altered in the following instances: The 2 Marina Gorka sites have been arbitrarily assigned to the Gresk Complex, which is the nearest active MRBM complex; good direct roads lead from the complex to the site. Marina Gorka is not an operational complex and Gresk has not had any known fixed field sites. The fourth Dyatlovo site, Berezovka, has been associated with the Vselyub Complex

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primarily because the road network between Vselyub and the site is much more direct than between the Dyatlovo Complex and the site; furthermore, Dyatlovo has 3 usable sites to the west of the complex while this is to the east and Vselyub had no known fixed field site. Korosten Complex then would be the only complex with 4 associated field sites. However, Litki Fixed Field Site 2 probably is no longer in use, since the original loop road pattern is no longer visible; Litki Fixed Field Site 1 still has a visible road pattern. The former site had only 2 launch positions and only 2 launch positions were clearly defined at the latter, though 2 other possible positions were identified. If in fact there were only 2 positions at Litki 1, then these 2 sites were to all intents and purposes one complete site despite the 3.5 nautical mile (nm) separation. It is likely that this site is no longer in use. Though not determinable from photography, it is possible that the site may have been a second site for the Belokorovichi Complex to the northwest. In either case this would then leave Korosten with a more normal pattern of 2 fixed field sites.

Derazhnya, Postavy, and Rakvere Complexes each have been held to have 3 fixed field sites; 1 field site per complex, Khmel'nitsy, Sivtsy, and Tapa, respectively, have only 2 launch positions, while the others each have 4. Inactivity at these 2-position sites during the period under review may indicate they represented some earlier concept of fixed field use, later superseded by 4-position sites, and that they now are abandoned. These complexes could then be considered as having 2 fixed field sites each.

Pruzhany Complex had only 2 field sites until [redacted] when a third was identified. This could have been caused by the abandonment of the Shcherchevo Fixed Field Site,

resulting from construction adjacent to it associated with the new pipeline from Russia to [redacted] which passes nearby. Dyatlovo and Disna Complexes both have 3 fixed field sites with 4 positions each.

EQUIPMENT AND ACTIVITY AT FIXED FIELD SITES

Probable concrete slabs have been observed under construction at the 2 westernmost clearings and the easternmost clearing of the Akhtyrka Fixed Field Site (Figure 1). The positioning of erectors at Akhtyrka MRBM Launch Sites 1 and 2 illustrates the difficulty of relating launch azimuths to the axis of fixed field site launch positions. All erectors at Akhtyrka MBRM Launch Site 1 and 2 erectors at Launch Site 2 equate in azimuth with the field site clearings; however, the remaining 2 erectors are oriented at an angle 20 degrees different from the other 6. In this and numerous other instances, photographic interpretation alone cannot determine the reason for these variations but can only suggest a change in target after original site construction.

In several instances fixed field sites are located in or adjacent to military areas; however, only in the case of the 2 Dobele fixed field MRBM sites, where probable missiles on transporters have been located in the Dobele Barracks Area, is there any clear evidence of association with these military areas. Figure-eight driver training patterns have been observed at both the Maykop Fixed Field Site and Jelgava Fixed Field Site 1. The pattern at Maykop crosses over 1 of the launch positions (Figure 2).

In [redacted] considerable equipment and activity were observed at the Novoselki Fixed Field Site 1 of the Konkovichi Complex (Figure 3). At least 4 erectors, 1 missile on transporter, 6 oxidizer trailers with prime movers, 3 fuel trailers 1 with prime mover, 2 probable mobile service cranes, and 25 other pieces of equipment are in the site area.

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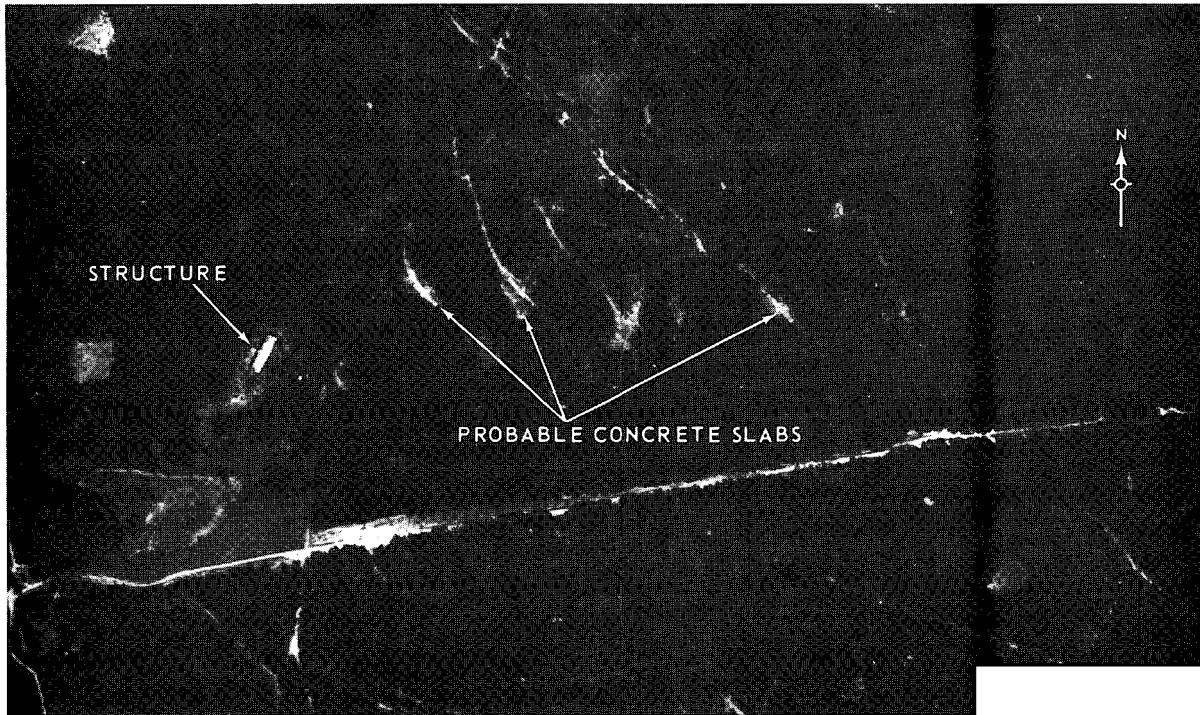


FIGURE 1. AKHTYRKA FIXED FIELD MRBM SITE.

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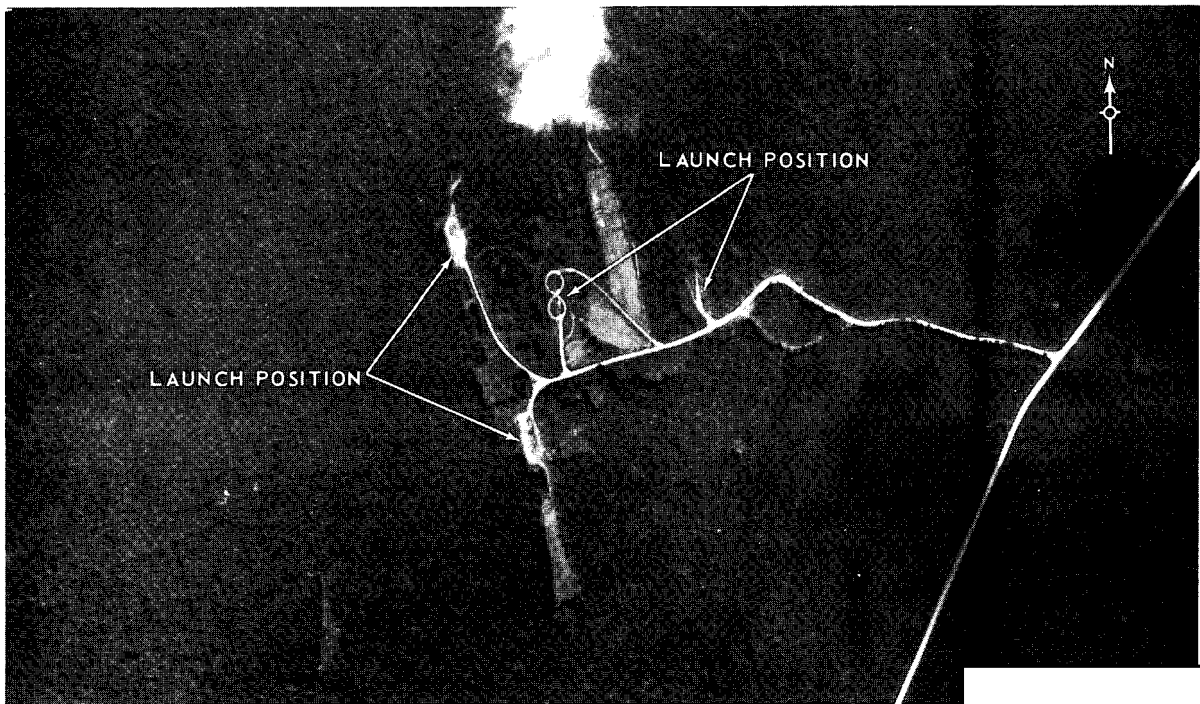


FIGURE 2. MAYKOP FIXED FIELD MRBM SITE.

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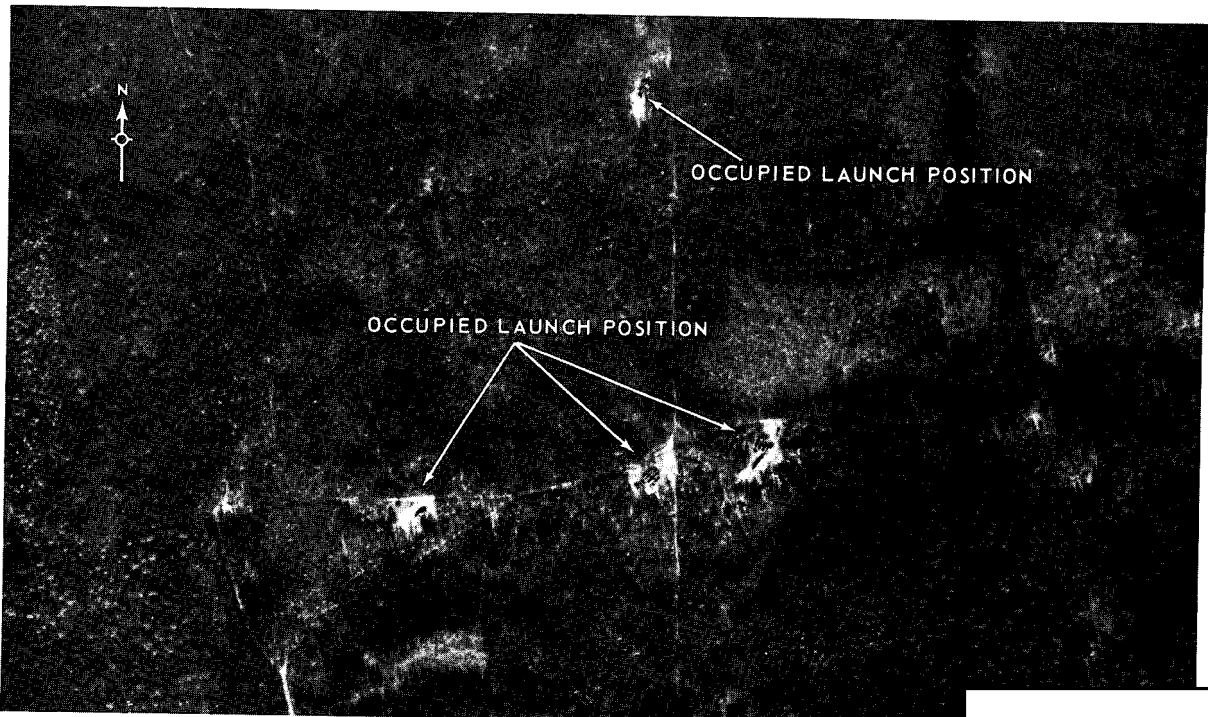


FIGURE 3. NOVOSELKI FIXED FIELD MRBM SITE 1.

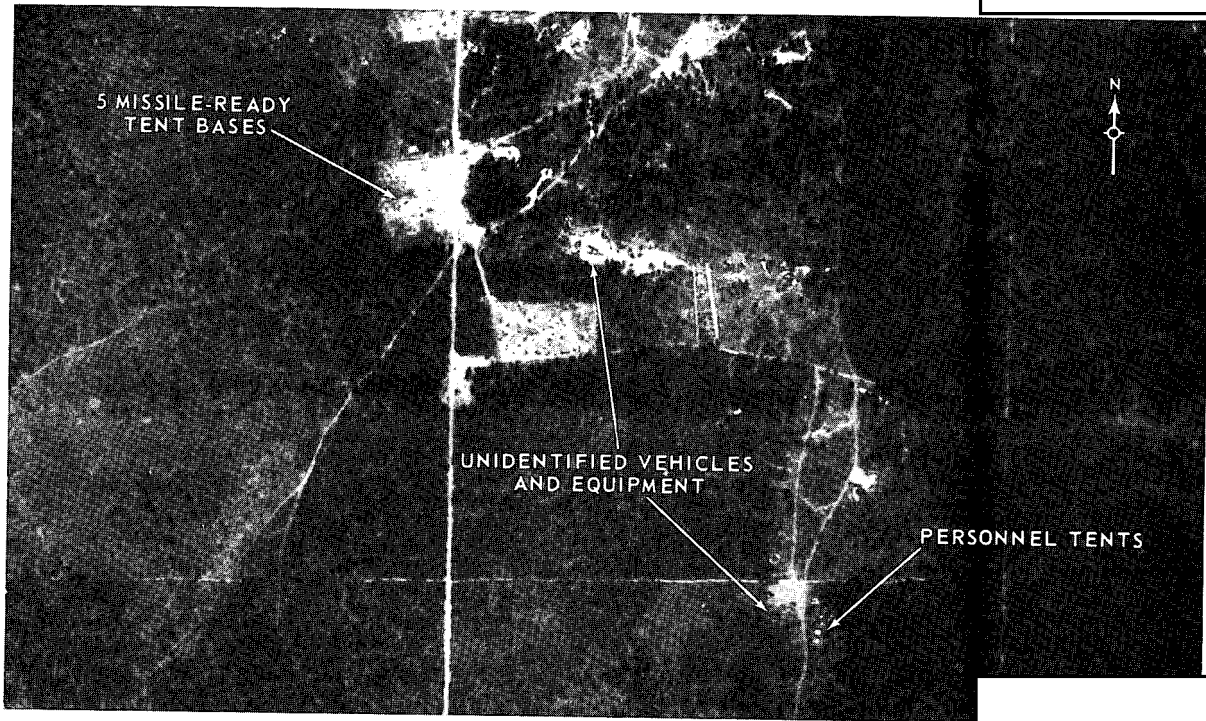


FIGURE 4. VASILISHKI FIXED FIELD MRBM SITE.

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Tree shadows preclude an exact determination of the presence of other missiles, although 2 objects which may be missiles on transporters are partially visible in the trees near 2 of the launch positions. A review of the 2 "permanent" Konkovich Complex launch sites indicated that the equipment probably came from the Petrikov MRBM Launch Site, since no oxidizer or fuel trailers were located either in their normal positions or on the site, nor were any erectors present. At Konkovich MRBM Launch Site, no erectors were in position on the launch pads, but fuel and oxidizer trailers were normally positioned and 2 large pieces of equipment observed near the ready building; at least 1 of the pieces of equipment appeared to be a covered erector. No activity was observed at the newly constructed rail-to-road transfer point.

sile-ready tents in general and specifically their absence at the Novoselki Fixed Field Site 1 (Figure 3) cannot be determined.

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Although the Smorgon Fixed Field Site has been known for a period of time and may have a launch stand base and levelling blocks, equipment has not been identified there.

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Missile-ready tents as typified by the tent bases remaining since their occupation during exercise observed on [redacted]

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[redacted] at the Vasilishki Fixed Field Site (Figure 4), Lida MRBM Complex, cannot be positively identified on photography during the period of this report. Significance of this absence of mis-

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Table 1. Listing of Fixed Field Sites, by Complexes

Complex	Fixed Field Site	Coordinates		Activity/Remarks
Akhtyrka	Akhtyrka	50-19-38N	34-51-37E	Active: Probable concrete slabs under construction; [redacted]
Aluksne	Lejasciems	57-14-53N	26-40-33E	Inactive
	Gulbene	57-16-40N	26-54-31E	Undetermined
Anastasyevka	Anastasyevka	49-32-33N	135-31-46E	Active: Vehicles; launch ring and levelling block scars; [redacted]
Balta	Kodyma	48-04-15N	29-18-30E	Inactive
Barano-Orenburgskoye	Sofiye Alekseyevskoye	44-11-42N	131-24-08E	Active: Vehicles; launch ring and levelling block scars; [redacted]
	Novo Georgiyevka	44-09-00N	131-25-00E	Site first observed [redacted]
Belokorovichi	Rudnya Zlotinskaya	51-08-30N	27-59-45E	Inactive
Borshchev	Skala Podolskaya 1	48-53-14N	26-13-27E	Active: Possible objects in launch clearings; [redacted]
	Skala Podolskaya 2	48-52-21N	26-16-25E	Inactive
Brest	Pishcha	51-35-12N	23-46-50E	Inactive
	Zamshany	51-50-22N	24-02-16E	Inactive
Brody	Yazlovchik	50-05-39N	25-01-52E	Active: Addition of 2 large revetments; [redacted]
	Stanislavchik	50-06-53N	24-56-31E	Inactive
Derazhnya	Khmelnitskiy	49-25-05N	27-06-21E	Inactive: Only 2 launch pads
	Letichev 1	49-22-46N	27-43-59E	Inactive
	Letichev 2	49-25-18N	27-44-25E	Inactive
Disna	Dernovichi	55-47-44N	28-19-57E	Inactive
	Demidovo	56-01-15N	28-18-15E	Active: Vehicles, structure, launch ring and levelling block scars; [redacted]
Dolina	Morachkoyo	55-53-00N	28-16-00E	Undetermined
	Berezhnitsa	49-12-47N	23-57-35E	Undetermined
Dyatlovo	Rakov	48-58-19N	24-05-37E	Inactive
	Ruda Yavorskaya 1	53-23-05N	25-10-15E	Inactive
	Ruda Yavorskaya 2	53-23-22N	25-12-16E	Inactive
Gomel	Ruda Yavorskaya 3	53-23-23N	25-13-26E	Inactive
	Gomel 1	52-20-41N	30-50-58E	Active: Launch ring and levelling block scars; [redacted]
Gresk	Gomel 2	52-20-30N	30-50-30E	Active: Probable tent bases; [redacted]
	Shatsk 1	53-27-49N	27-48-12E	Inactive
Gusev	Shatsk 2	53-26-02N	27-50-06E	Inactive
	Tolminkemsk	54-22-03N	22-20-12E	Undetermined
Gvardeysk	Geroykoye	54-45-57N	21-24-56E	Inactive
	Vysokoye	54-44-33N	21-33-48E	Active: Slight change in road pattern; [redacted]
Jelgava	Jelgava 1	56-38-50N	23-52-50E	Inactive
	Jelgava 2	56-44-15N	23-55-00E	Inactive

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Table 1. (Continued)

Complex	Fixed Field Site	Coordinates	Activity/Remarks
Jonava	Kaisiadorys	54-59-12N 24-28-47E	Inactive
Kamenets Podolskiy	Yarmolinty	49-12-13N 26-46-58E	Inactive
	Vinkovtsy	48-56-13N 27-11-30E	Active: Probable objects on northern pad; [redacted]
Kivertsy	Kivertsy	50-50-20N 25-23-24E	Active: Vehicles present; [redacted]
Konkovichi	Novoselki 1	52-23-05N 28-42-44E	Active: Exercise [redacted]
	Novoselki 2	52-26-11N 28-41-19E	Active: Launch ring and levelling block scars; [redacted]
Korosten	Litki 1	51-01-27N 28-27-55E	Active: Retains identity, while Litki 2, constructed in similar terrain using same techniques, has lost its identity
	Litki 2	51-01-36N 28-24-01E	Inactive: See Litki 1, probably abandoned
	Yemilchino 1	50-52-29N 27-53-32E	Inactive
	Yemilchino 2	50-52-08N 27-53-10E	Inactive
Kozhanovichi	Lyudenevichi	52-18-00N 27-42-22E	Active: U/I objects/structures; [redacted]
Krasnoznamensk	Krasnoznamensk	54-57-31N 22-35-22E	Inactive
	Sudargas	55-00-50N 22-35-53E	Inactive
Kremovo	Manzovka	44-12-18N 132-34-02E	Active: Probable ready tent; [redacted]
Kurgancha	Kurgancha	39-41-00N 65-59-00E	Active: Launch ring and levelling block scars, structure undergoing change; [redacted]
Lida	Vasilishki	53-44-19N 24-55-55E	Active: Vehicles, U/I equipment and personnel tents; [redacted]
Lutsk	Gorokhov	50-35-39N 24-48-58E	Active: U/I equipment; [redacted]
Maykop	Tulskaya	44-31-38N 40-14-08E	Inactive
	Maykop	44-33-15N 39-57-51E	Active: Launch ring and levelling block scars; [redacted]
Moloskovitsy	Kotly 1	59-37-58N 28-41-41E	Inactive
	Kotly 2	59-39-12N 28-36-09E	Inactive
Nadvornaya	Ivanovtsy	48-38-04N 24-54-24E	Inactive
	Gorokholina	48-45-15N 24-30-30E	Inactive
Ostrog	Slavuta	50-16-48N 26-57-17E	Active: Structure and launch ring and levelling block scars; [redacted]
	Shepetovka	50-12-27N 26-58-20E	Inactive
Ostrov	Shabany	57-23-44N 28-13-06E	Active: Possible vehicle and structure; [redacted]
Pinsk	Lychkovtsy	52-15-00N 25-21-12E	Undetermined
Polotsk	Plissa 1	55-12-46N 28-02-21E	Inactive
	Plissa 2	55-11-41N 27-54-37E	Active: U/I equipment; [redacted]
Postavy	Sivtsy	55-09-33N 26-52-36E	Inactive: Only 2 launch pads
	Bogatoye	54-57-32N 26-28-30E	Inactive
	Kobylnik	54-56-31N 26-37-11E	Inactive

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Table 1. (Continued)

Complex	Fixed Field Site	Coordinates	Activity/Remarks
Pruzhanj	Strigovo	52-23-22N 24-14-45E	Inactive
	Shcherchevo	52-22-47N 24-10-27E	Inactive: (may be abandoned due to construction through adjacent area)
Rakvere	Pruzhanj	52-26-47N 24-19-14E	First observed on [redacted]
	Tamsalu	59-08-40N 26-09-33E	Undetermined
	Kadina	59-16-35N 26-10-13E	Inactive
Risti	Tapa	59-16-45N 26-03-15E	Inactive
	Kloostri 1	59-10-00N 24-03-00E	Inactive
Ruzhanj	Kloostri 2	59-16-15N 24-01-00E	First observed on [redacted]
	Shchitno 1	52-43-22N 24-58-23E	Active: Structure and launch ring scars; [redacted]
Sateikiai	Shchitno 2	52-41-21N 24-57-06E	Inactive
	Telsiai	55-56-54N 22-07-05E	Inactive
Slonim	Alsedziai	56-00-14N 22-06-06E	Inactive
	Byten	52-54-08N 25-21-47E	Inactive: Steady deterioration
Smorgon	Gavinovichi	53-01-30N 25-38-30E	Inactive
	Smorgon	54-34-32N 26-21-51E	Inactive
Taurage	Skadvile	55-23-14N 22-31-45E	Inactive
	Taurage	55-09-43N 22-15-04E	Inactive
Torva	Valga 1	57-50-21N 25-54-26E	Inactive
	Valga 2	67-55-15N 25-46-30E	Inactive
Ukmerge	Gelvonai	55-07-29N 24-43-36E	Inactive
	Balninkai	55-13-00N 25-01-29E	Inactive
Usovo	Luginy	51-07-53N 28-22-08E	Inactive
	Bolsuny	51-07-06N 28-27-18E	Inactive
Vselyub	Berezovka	53-42-17N 25-30-43E	Inactive
Yelsk	Yelsk	51-51-03N 29-05-12E	Inactive
Zagare	Dobele 1	56-39-54N 23-11-44E	Inactive
	Dobele 2	56-40-41N 23-07-17E	Active: Probable structure; [redacted]
Zhitomir	Berdichev	49-51-37N 28-25-25E	Inactive
Zhmerinka	Vinnitsa	49-13-15N 28-19-00E	Inactive
	Bar	49-05-26N 27-42-55E	Inactive
Znamensk	Pravdinsk	54-22-55N 20-59-28E	Active: Technical and launch areas expanded; [redacted]
	Domnovo	54-25-32N 20-52-48E	Inactive

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REFERENCES (Continued)

MAPS OR CHARTS

Various AMS, Series N501, and SAC US Air Target Charts, Series 200

REQUIREMENT

GMAIC. 37-6

NPIC PROJECT

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