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RCA-01/0034/69



Basic Imagery Interpretation Report



**NATIONAL
PHOTOGRAPHIC
INTERPRETATION
CENTER**

25X1



KARTALY ICBM COMPLEX



25X1

DEPLOYED STRATEGIC SSM FACILITIES

USSR

JUNE 1969

COPY NO. 113

5 PAGES
GROUP 1: EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

Declassification by NGA/DoD

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INSTALLATION OR ACTIVITY NAME

Kartaly ICBM Complex

COUNTRY

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UTM COORDINATES

NA

GEOGRAPHIC COORDINATES

52-59-20N 060-31-40E

MAP REFERENCE

See below

LATEST IMAGERY USED

NEGATION DATE (if required)

NA

SAC. USATC 200, Sheets M0164-17HL & -18HL, 2d ed, Mar 66, scale 1:200,000 (SECRET/

SAC. USATC 200, Sheet M0164-22HL, 2d ed, Aug 66, scale 1:200,000 (SECRET/

SAC. USATC 200, Sheet M0164-23HL, 2d ed, May 67, scale 1:200,000 (SECRET/

ABSTRACT

[redacted] the Kartaly ICBM Complex consisted of 35 SS-9 launch sites and their supporting facilities. Site construction at this complex probably started early in [redacted] Presently 24 launch sites are complete and 11 are under construction. An increase in site construction time has been noted at some of the later sites. Unusual features at this complex are two dummy ICBM sites and a miniature mockup ICBM site.

This report, which updates published information on the Kartaly complex, contains a map depicting site deployment and a tabulated chronology of the complex.

INTRODUCTION

The Kartaly ICBM Complex is in the west-central part of the steppe region, in the Russian SFSR (Figure 1). The complex occupies an area of approximately 1,150 square nautical miles (nm) around the town of Kartaly, and the nearest large city, Magnitogorsk, is about 60 nm to the west-north-west. The launch facilities, consisting of 35 type IIIC single-silo launch sites, completely encircle the town. The complex support facilities, a headquarters command and control facility, and the rail-to-road transfer point with an SS-9 training site are approximately 3 nm southwest of Kartaly.

The complex support facilities and rail-to-road transfer point are served by a spur from an east-west rail line extending from Magnitogorsk and Akmolinsk through Kartaly. A north-south line connects Kartaly with Chelyabinsk and Orsk. Both lines are double-track and interconnected at Kartaly. A well-engineered road network which has been constructed concurrently with the deployment of the launch sites connects the sites and the supporting facilities.

The terrain in the region is well drained and gently rolling with elevations ranging from 800 to 1,200 feet. Most of the land is used for agriculture; however, some to the north and west of the town is lightly wooded. The steppe region is in the warmest part of western Siberia, the temperatures ranging from an average of approximately 0° F in January to about 68° F in July. Snow cover is normally limited to the period from early November to mid-April.

The nearest SAM site is approximately 50 nm to the west-northwest, in the Magnitogorsk area. No airfields are in the vicinity of Kartaly.

This report updates and supersedes NPIC [redacted]

BASIC DESCRIPTION

The Kartaly ICBM Complex is one of six ICBM complexes in the Soviet Union deploying the SS-9 missile system. It consists of 35 SS-9 ICBM single-silo launch sites, deployed in six groups (designated A through F), complex support facilities, a headquarters command and control facility, and a rail-to-road transfer point with a type IIIC training site. Twenty-four of the launch sites are complete and 11 are under construction. The first evidence of this complex was in [redacted] (Table 1), when the complex support facilities and five launch sites of launch group A were observed.

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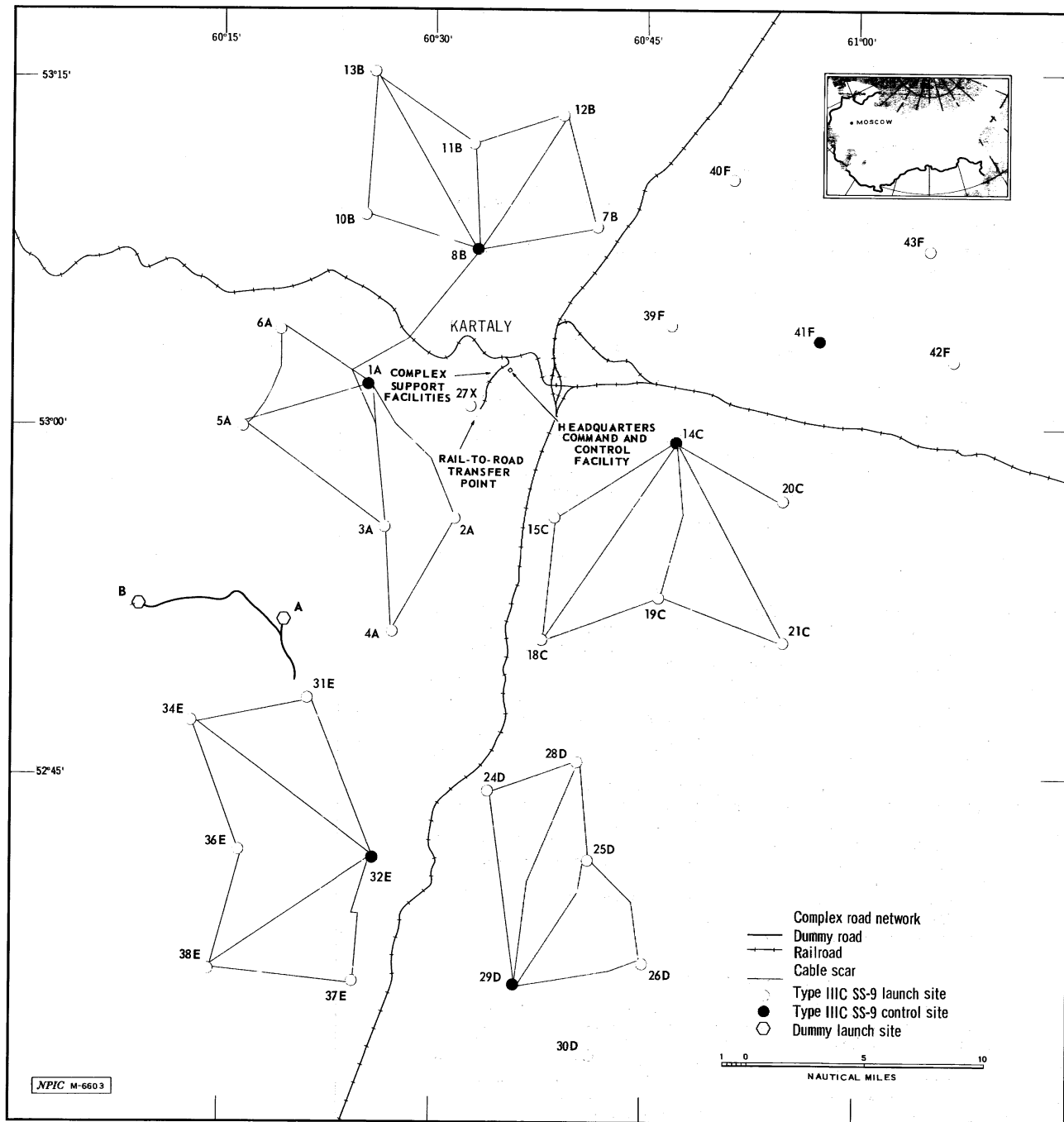


FIGURE 1. LOCATION MAP

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Launch Facilities

Construction of launch group A is estimated to have started in [redacted] 25X1
construction was started on launch groups B and C. Launch groups D and E were
started in [redacted] and group A was completed. In [redacted] launch group D was completed and 25X1
launch group F, the latest group, was begun. When last observed in [redacted] group 25X1
E was not yet complete and group F contained only five sites in an early stage of con-
struction.

The first launch sites at the complex required 26 months to complete. However, two
sites in launch group E, which were started in [redacted] and are now only in a 25X1
late stage of construction, are estimated to be completed in [redacted] of this year after a 25X1
period of approximately 30 months.

Two dummy SS-9 launch sites are north of launch group E. These sites (designated
A and B), constructed in the [redacted] were the first dummy ICBM sites observed in
the Soviet Union.

Complex Support Facilities

The Kartaly complex support facilities ² provide the administrative and logistic re-
quirements for this complex and are typical of those found at other SS-9 complexes. They
consist of a railhead and storage area with an adjoining barracks area and an administra-
tion and housing area.

The railhead and storage area shows no significant change. Materials for launch sites
still under construction are apparent along the rail sidings, and several multistory build-
ings are under construction in the administration and housing area.

Headquarters Command and Control

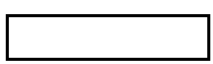
The headquarters command and control facility, ³ consisting of a sub-surface concrete
control bunker and two aboveground administration-type buildings, is now complete. An
antenna field with two fishbone arrays and two horizontal dipoles is adjacent to the
facility.

Rail-to-Road Transfer Point

The rail-to-road transfer point provides for the receipt, maintenance, inspection, and
distribution of missiles, warheads, and propellants. ⁴ All elements of the facility are
currently in use, and several buildings have recently been constructed in the facility.
Launch site 27X, which is used for training, is now complete. A miniature mockup of
an SS-9 launch site is located adjacent to site 27X. It is approximately one-fifth the
size of a normal SS-9 launch site and may function as a training aid providing an easy-
to-see overall layout of a launch site. It was first observed in [redacted] and is not 25X1
thought to have any internal structure.

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REFERENCES

[Redacted]

MAPS OR CHARTS

25X1

SAC. US Air Target Chart, Series 200, Sheets M0164-17HL and 18 HL, 2d ed, Mar 66, scale 1:200,000 (SECRET [Redacted])

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SAC. US Air Target Chart, Series 200, Sheet M0164-22IIL, 2d ed, Aug 66, scale 1:200,000 (SECRET/[Redacted])

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SAC. US Air Target Chart, Series 200, Sheet M0164-23HL, 2d ed, May 67, scale 1:200,000 (SECRET/[Redacted])

DOCUMENTS

25X1

1. NPIC. [Redacted] Kartaly ICBM Complex, USSR, Jan 68 (TOP SECRET [Redacted]) 25X1

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2. NPIC. [Redacted] Kartaly ICBM Complex, USSR, Complex Support Facility, Jan 68 (TOP SECRET [Redacted])

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3. NPIC. [Redacted] Soviet ICBM Headquarters Command and Control Facilities, Dec 68 (TOP SECRET [Redacted])

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4. NPIC. [Redacted] Rail-to-Road Transfer Points at SS-9 ICBM Complexes Oct 68 (TOP SECRET [Redacted])

REQUIREMENT

COMIREX BR-A/002-69
NPIC Project 210169

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